

Please AMEND the application as follows.

Please REPLACE claims 7 and 10-12 as follows.

- B1
7. (Twice Replaced) An electronically controlled electric motor comprising:
- a shaft;
  - at least one rotor bearing permanent magnets for rotation about the shaft;
  - a stator housing having coils; and
  - motor position sensors arranged in the stator housing, wherein at least one position sensor comprises an electrical conductor produced integrally with connecting leads; and
  - wherein a current is induced in the electrical conductor by a moving magnetic field.

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10. (Twice Replaced) The electric motor as claimed in claim 7, wherein the electrical conductor is a pulse wire arranged parallel to the shaft.

- B2
11. (Twice Replaced) The electric motor as claimed in claim 1, further comprising position magnets separate from the rotor and arranged for rotation about the shaft opposite the position sensors.

12. (Twice Replaced) The electric motor as claimed in claim 1, further comprising a disk having a second set of permanent magnets, wherein the disk is separate from

32 (cont)  
the rotor and arranged for rotation about the shaft and in operative connection with the position sensors.

Please ADD the following new claims 13-24.

13. (New) The electric motor as claimed in claim 7, wherein the moving magnetic field which induces the current in the electrical conductor is generated by the rotation of the permanent magnets on the rotor.

14. (New) The electrical motor as claimed in claim 9, wherein the coil is coiled copper wire.

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15. (New) An electric motor for use in an environment containing solvents comprising:  
a stationary stator housing;  
a shaft through the stator housing;  
a rotor positioned inside the stator housing for rotation about the shaft, wherein the rotor contains one or more permanent magnets thereon;  
one or more electrical coils fixed in the stator housing; and  
one or more position sensors fixed in the stator housing, wherein the position sensors comprise electrical conductors integral with connecting leads, and wherein current is induced in the electrical conductors by a moving magnetic field.

16. (New) The electrical motor as claimed in claim 15, wherein the electrical conductors are coils.

17. (New) The electrical motor as claimed in claim 16, wherein the coils are coiled copper wires.

18. (New) The electrical motor as claimed in claim 15, wherein the electrical conductors are pulse wires arranged parallel to the shaft.

B3  
Cont  
19. (New) The electrical motor as claimed in claim 15, further comprising a disk having permanent magnets thereon arranged for rotation about the shaft.

20. (New) The electrical motor as claimed in claim 19, wherein the moving magnetic field which induces the current in the electrical conductor is generated by the rotation of the permanent magnets on the disk.

21. (New) The electrical motor as claimed in claim 15, wherein the moving magnetic field which induces the current in the electrical conductor is generated by the rotation of the permanent magnets on the rotor.

22. (New) The electrical motor as claimed in claim 18, wherein the pulse wires are copper wires.

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Cont

23. (New) The electrical motor as claimed in claim 15, wherein the positions sensors are positioned between the electrical coils.

24. (New) The electrical motor as claimed in claim 7, wherein the positions sensors are positioned between the electrical coils.

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